

In the Claims:

77. (Currently amended) A supercharged, power-producing gas turbine system, said system comprising:

a gas turbine subsystem and an electrical generator, said gas turbine subsystem comprising a compressor, a burner, and a gas turbine, wherein a gas turbine subsystem input airstream is compressed by said compressor, heated by said burner, and expanded through said turbine to cause said turbine to rotate, whereby said turbine drives said generator to generate electrical power;

a supercharging subsystem comprising at least one supercharging fan which increases the pressure of said gas turbine subsystem input airstream, whereby power output of said turbine and hence electrical output of said electrical generator may be increased; and

at least one fogger located upstream of said gas turbine subsystem input airstream, for providing a source of mist to humidify and cool said input airstream before it is inputted to said compressor, wherein said gas turbine system is operated to provide substantially maximum generator design rated output at summer-peaking temperatures.

78. (Original) The supercharged, power-producing gas turbine system of claim 77, wherein said at least one fogger is located upstream of said fan.

79. (Original) The supercharged, power-producing gas turbine system of claim 77, wherein said at least one fogger is located between said fan and said compressor.

80. (Original) The supercharged, power-producing gas turbine system of claim 77, further comprising a second fogger, wherein said at least one fogger is located upstream of said fan, and said second fogger is located between said fan and said compressor.

81. (Original) The supercharged, power-producing gas turbine system of claim 77, further comprising:

a system controller; wherein said system controller monitors at least one system parameter and controls operation of said at least one fogger such that as ambient temperature decreases, turbine power output, which otherwise would increase with decreasing ambient temperature, does not exceed maximum supercharged summer-peaking power output.